Mihai Gabor

List of Publications by Year
in descending order

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88	1,601	304368	344852
papers	citations	22 h-index	36 g-index

88	88	88	2059
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Annealing Temperature and Thickness Dependencies of Perpendicular Magnetic Anisotropy and Dzyaloshinskiiâ€“ Moriya Interaction of Pt/Co/MgO Thin Films. IEEE Transactions on Magnetics, 2022, 58, 1-5.	1.2	4
2	Manufacturing, Characterization, and Simulation Model Design for a Current Sensor Based on a Spin-Valve Magnetoresistive Microstructure. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2022, 12, 422-428.	1.4	1
3	Mechanism of Spinâ€Orbit Torques in Platinum Oxide Systems. Advanced Electronic Materials, 2022, 8, .	2.6	2
4	Effect of Chiral Damping on the dynamics of chiral domain walls and skyrmions. Nature Communications, 2022, 13, 1192.	5.8	7
5	Perpendicular Magnetic Anisotropy Electric Field Modulation in Magnetron-Sputtered Pt/Co/X/MgO Ultrathin Structures With Chemically Tailored Top Interface. IEEE Transactions on Magnetics, 2021, 57, 1-10.	1.2	1
6	Multiple Magnetoionic Regimes in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi>Ta/Co</mml:mi><mml:mn>20</mml:mn></mml:msub><mml:msub><mml:mi>Fe</mml:mi><m mathvariant="normal">B</mml:mi><mml:mn>20</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:mrow><mml:mi>Ht mathvariant="normal">O</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Applied, 2021, 15, .	4.3	8
7	Hf thickness dependence of perpendicular magnetic anisotropy, damping and interfacial Dzyaloshinskii-Moriya interaction in Pt/CoFe/Hf/HfO2. Physical Review Materials, 2021, 5, .	0.9	0
8	Dependence of the interfacial Dzyaloshinskii-Moriya interaction, perpendicular magnetic anisotropy, and damping in Co-based systems on the thickness of Pt and Ir layers. Physical Review B, 2021, 104, .	1.1	5
9	Morphological and Structural Evolution of Chemically Deposited Epitaxially LaNiO3 Thin Films. Coatings, 2021, 11, 1376.	1.2	0
10	Single Source Precursor for PAD-LaMnO3 Thin Films. Crystals, 2020, 10, 851.	1.0	0
11	Spin Pumping and Magnetic Anisotropy in La 2/3 Sr 1/3 MnO 3 /Pt Systems. Physica Status Solidi (B): Basic Research, 2020, 257, 2000265.	0.7	5
12	PSpice Model for a Current Sensor Based on Spin-Valve Magnetoresistive Microstructure. , 2020, , .		1
13	Spin-orbit Torques and Magnetization Switching in Perpendicularly Magnetized Epitaxial Pd/Co 2 FeAl/MgO Structures. Physical Review Applied, 2020, 13, .	1.5	9
14	Soft magnetic composites based on oriented short Fe fibres coated with polymer. Journal of Alloys and Compounds, 2020, 840, 155731.	2.8	21
15	Investigation of the correlation between perpendicular magnetic anisotropy, spin mixing conductance and interfacial Dzyaloshinskiiâ€“Moriya interaction in CoFeB-based systems. Journal Physics D: Applied Physics, 2020, 53, 505003.	1.3	9
16	Interface phenomena in ferromagnet/ <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Ta</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math> -based systems: Damping, perpendicular magnetic anisotropy, and Dzyaloshinskii-Moriya interaction. Physical Review Materials, 2020, 4, .	0.9	5
17	Perpendicular magnetic anisotropy and interfacial Dzyaloshinskiiâ€“Moriya interaction in as grown and annealed X/Co/Y ultrathin systems. Journal of Physics Condensed Matter, 2020, 32, 495802.	0.7	9
18	Perpendicular magnetic anisotropy in Pt/Co-based full Heusler alloy/MgO thin-film structures. Physical Review B, 2019, 100, .	1.1	29

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19	Current-Induced Nucleation and Dynamics of Skyrmions in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Co</mml:mi></mml:math> -based HeuslerÂAlloy. Physical Review Applied, 2019, 11, .	1.5	26
20	Design and Characterization of a Micrometric Magnetoresistive Sensor. , 2019, , .		4
21	Influence of the capping layer material on the interfacial Dzyaloshinskiiâ€“Moriya interaction in Pt/Co/capping layer structures probed by Brillouin light scattering. Journal Physics D: Applied Physics, 2019, 52, 125002.	1.3	25
22	Interfacial Dzyaloshinskii-Moriya interaction sign in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mtext>Ir/Co</mml:mtext><mml:mn>2</mml:mn></mml:mr systems investigated by Brillouin light scattering. Physical Review B, 2018, 97, .	1.1	24
23	Surface Decoration as a Prospective Artificial Pinning Strategy in Superconducting YBa2Cu 3O${}_{7ext{-}ext{x}}$ Films. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	5
24	Ferromagnetic-resonance-induced spin pumping in Co₂₀Fe₆₀B₂₀/Pt systems: damping investigation. Journal Physics D: Applied Physics, 2018, 51, 045002.	1.3	21
25	Thickness Dependence of the Dzyaloshinskii-Moriya Interaction in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>Co</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn> Ultrathin Films: Effects of Annealing Temperature and Heavy-Metal Material. Physical Review Applied, 2018, 9, .	1.5	22
26	Investigation of the annealing temperature dependence of the spin pumping in Co20Fe60B20/Pt systems. Journal of Applied Physics, 2018, 123, .	1.1	12
27	Ordered misfit dislocations in epitaxial Gd doped CeO 2 thin films deposited on (001)YSZ single crystal substrates. Applied Surface Science, 2018, 433, 668-673.	3.1	7
28	Magnetic Anisotropy and Damping Constant in CoFeB/Ir and CoFeB/Ru Systems. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	7
29	A comparative study of the Fe-based amorphous alloy prepared by mechanical alloying and rapid quenching. Journal of Alloys and Compounds, 2017, 703, 19-25.	2.8	17
30	Damping and spin mixing conductance in Ni₈₀Fe₂₀/CuIr structures: effect of Ir doping. Journal Physics D: Applied Physics, 2017, 50, 135002.	1.3	5
31	New versatile synthesis for low dimension superparamagnetic YBa 2 Cu 3 O 7â^'x nanoparticles. Ceramics International, 2017, 43, 8845-8849.	2.3	3
32	Interface Dzyaloshinskii-Moriya interaction in the interlayer antiferromagnetic-exchange coupled Pt/CoFeB/Ru/CoFeB systems. Physical Review B, 2017, 96, .	1.1	19
33	Interlayer exchange coupling in perpendicularly magnetized Pt/Co/Ir/Co/Pt structures. Journal Physics D: Applied Physics, 2017, 50, 465004.	1.3	22
34	Annealing effect on elastic, magnetic and magnetoelastic properties of CoFeB thin films on polymer substrate. Journal Physics D: Applied Physics, 2017, 50, 455002.	1.3	5
35	Characterization of the Interfacial Dzyaloshinskiiâ€“Moriya Interaction in Pt/Co2FeAl0.5Si0.5Ultrathin Films by Brillouin Light Scattering. IEEE Transactions on Magnetics, 2017, 53, 1-5.	1.2	2
36	Epitaxial La 0.7 Sr 0.3 MnO 3 nanostructures obtained by polymer-assisted surface decoration (PASD). Materials Letters, 2016, 171, 281-284.	1.3	8

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37	Annealing temperature and thickness dependencies of structural and magnetic properties ofCo2FeAlthin films. Physical Review B, 2016, 94, .	1.1	11
38	Spinâ€“orbit torques and magnetization switching in W/Co₂FeAl/MgO structures. Journal Physics D: Applied Physics, 2016, 49, 365003.	1.3	29
39	Brillouin light scattering investigation of the thickness dependence of Dzyaloshinskii-Moriya interaction in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">o</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">F</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>ultrath	1.1	50
40	Ferromagnetic resonance in thin films submitted to multiaxial stress state: application of the uniaxial equivalent stress concept and experimental validation. Journal Physics D: Applied Physics, 2016, 49, 265001.	1.3	15
41	Spectroscopic investigation of elastic and magnetoelastic properties of CoFeB thin films. Journal Physics D: Applied Physics, 2016, 49, 145003.	1.3	18
42	Magnetic properties evolution of the CoxFe3-xO4/SiO2 system due to advanced thermal treatment at 700Â°C and 1000Â°C. Journal of Magnetism and Magnetic Materials, 2016, 410, 47-54.	1.0	46
43	Static and dynamic magnetic properties of Co2FeAl-based stripe arrays. Journal of Magnetism and Magnetic Materials, 2016, 399, 199-206.	1.0	8
44	Correlations between structural, electronic transport, and magnetic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn>2</mml:mn></mml:msub></mml: alloy epitaxial thin films. Physical Review B, 2015, 92, .	1.1	41
45	Temperature dependence of the perpendicular magnetic anisotropy in Ta/Co2FeAl/MgO structures probed by Anomalous Hall Effect. Journal of Magnetism and Magnetic Materials, 2015, 392, 79-82.	1.0	8
46	Perpendicular Magnetic Anisotropy in Co₂ FeAl Thin Films: Effect of Annealing Temperature. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	9
47	Perpendicular magnetic anistropy in Co2FeAl thin films: Effect of the annealing temperature. , 2015, , .		0
48	Fluorine-free propionate route for the chemical solution deposition of YBa2Cu3O7â^'x superconducting films. Ceramics International, 2015, 41, 4416-4421.	2.3	21
49	Effective 90-degree magnetization rotation in Co2FeAl thin film/piezoelectric system probed by microstripline ferromagnetic resonance. Applied Physics Letters, 2015, 107, .	1.5	8
50	Capping layer-tailored interface magnetic anisotropy in ultrathin Co2FeAl films. Journal of Applied Physics, 2015, 117, 023906.	1.1	12
51	Experimental study of spin-wave dispersion in Py/Pt film structures in the presence of an interface Dzyaloshinskii-Moriya interaction. Physical Review B, 2015, 91, .	1.1	98
52	Magnetic and structural properties of Co2FeAl thin films grown on Si substrate. Journal of Magnetism and Magnetic Materials, 2015, 373, 140-143.	1.0	21
53	The Vortex Path Model Analysis of the Field Angle Dependence of the Critical Current Density in Nanocomposite YBa2Cu3 O 7â^'x â€“ BaZrO3 Films Obtained by Low Fluorine Chemical Solution Deposition. Journal of Superconductivity and Novel Magnetism, 2014, 27, 2493-2500.	0.8	15
54	ELECTRONIC, STRUCTURAL AND MAGNETIC PROPERTIES OF Co₂FeAl THIN FILMS FOR POTENTIAL SPINTRONIC APPLICATIONS. Spin, 2014, 04, 1440022.	0.6	4

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55	Development of a non-contact angular transducer. , 2014, , .		2
56	Co2FeAl Heusler thin films grown on Si and MgO substrates: Annealing temperature effect. Journal of Applied Physics, 2014, 115, .	1.1	71
57	Bending strain-tunable magnetic anisotropy in Co2FeAl Heusler thin film on KaptonÂ®. Applied Physics Letters, 2014, 105, 062409.	1.5	41
58	The Influence of the Capping Layer on the Perpendicular Magnetic Anisotropy in Permalloy Thin Films. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	8
59	Synthesis, structural and morphological characteristics, magnetic and optical properties of Co doped ZnO nanoparticles. Ceramics International, 2014, 40, 2835-2846.	2.3	70
60	Effect of the annealing temperature on dynamic and structural properties of Co2FeAl thin films. EPJ Web of Conferences, 2014, 75, 02001.	0.1	1
61	Optical properties correlated with morphology and structure of TEAH modified ZnO nanoparticles via precipitation method. Journal of Alloys and Compounds, 2013, 574, 255-259.	2.8	5
62	Structural defects analysis versus spin polarized tunneling in Co2FeAl/MgO/CoFe magnetic tunnel junctions with thick MgO barriers. Journal of Magnetism and Magnetic Materials, 2013, 347, 79-85.	1.0	10
63	Perpendicular magnetic anisotropy in Ta/Co2FeAl/MgO multilayers. Journal of Applied Physics, 2013, 114, 063905.	1.1	40
64	Epitaxial growth and characterization of La2Zr2O7 multilayers on biaxially textured NiW substrate by chemical solution deposition under highly reducing conditions. Thin Solid Films, 2013, 531, 491-498.	0.8	11
65	Polarization-Sensitive Linear Plasmonic Nanostructures via Colloidal Lithography with Uniaxial Colloidal Arrays. ACS Applied Materials & Interfaces, 2013, 5, 1362-1369.	4.0	19
66	Synthesis and characterization of undoped, Al and/or Ho doped ZnO thin Films. Ceramics International, 2013, 39, 5535-5543.	2.3	33
67	Synthesis, characterization and thermal decomposition study of zinc propionate as a precursor for ZnO nano-powders and thin films. Journal of Analytical and Applied Pyrolysis, 2013, 104, 653-659.	2.6	29
68	Highly c-axis oriented ZnO thin film using 1-propanol as solvent in solâ€“gel synthesis. Materials Letters, 2013, 92, 267-270.	1.3	25
69	Co<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>FeAl thin films grown on MgO substrates: Correlation between static, dynamic, and structural properties. Physical Review B, 2013, 87, .	1.1	116
70	Magnetic pinning effects of epitaxial LaxSr1â^'xMnO3 nanostructured thin films on YBa2Cu3O7â^'Î´ layers. Journal of Applied Physics, 2012, 112, .	1.1	14
71	Electrical properties of ceria/carbonate nanocomposites. Journal of Alloys and Compounds, 2012, 532, 109-113.	2.8	37
72	Synthesis, crystal structure and thermal decomposition of Zr6O4(OH)4(CH3CH2COO)12. Journal of Analytical and Applied Pyrolysis, 2012, 97, 137-142.	2.6	23

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73	Influence of a TiO2 buffer layer on the magnetic properties of anatase Co:TiO2 thin films. Journal of Applied Physics, 2012, 111, 083917.	1.1	4
74	Epitaxial growth of CeO2 thin film on cube textured NiW substrate using a propionate-based metalorganic deposition (MOD) method. Materials Chemistry and Physics, 2012, 133, 772-778.	2.0	15
75	Synthesis, crystal structure and thermal decomposition of a new copper propionate [Cu(CH3CH2COO)2]Â·2H2O. Journal of Analytical and Applied Pyrolysis, 2011, 92, 439-444.	2.6	27
76	Synthesis, crystal structure and thermal decomposition study of a new barium acetato-propionate complex. Journal of Analytical and Applied Pyrolysis, 2011, 92, 445-449.	2.6	16
77	Static and dynamic magnetic properties of epitaxial Co2FeAl Heusler alloy thin films. Journal of Applied Physics, 2011, 109, .	1.1	28
78	Magnetic and structural anisotropies of Co<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>FeAl Heusler alloy epitaxial thin films. Physical Review B, 2011, 84, .	1.1	100
79	Oxygen incorporation effects in annealed epitaxial La(1â^'x)SrxMnO3 thin films. Journal of Applied Physics, 2011, 109, 123913.	1.1	21
80	Synthesis, crystal structure and thermal decomposition of [La2(CH3CH2COO)6Â·(H2O)3]Â·3.5H2O precursor for high-k La2O3 thin films deposition. Materials Research Bulletin, 2010, 45, 1203-1208.	2.7	25
81	Synthesis of epitaxial BaZrO3 thin films by chemical solution deposition. Thin Solid Films, 2010, 518, 4714-4717.	0.8	12
82	Precursor chemistry for the solution deposition of epitaxial La0.66Sr0.33MnO3 (LSMO) thin films. Thin Solid Films, 2010, 518, 4753-4756.	0.8	3
83	Convective assembly of two-dimensional nanosphere lithographic masks. Materials Letters, 2009, 63, 1834-1836.	1.3	14
84	Atomic force microscopy study of nanocrystalline ceria thin films. Journal of Physics: Conference Series, 2009, 182, 012015.	0.3	1
85	Al-doped and undoped zinc oxide films obtained by soft chemistry. Processing and Application of Ceramics, 2009, 3, 79-84.	0.4	5
86	Chemically processed BaZrO₃nanopowders as artificial pinning centres. Journal of Physics: Conference Series, 2008, 97, 012289.	0.3	14
87	Exchange Coupling in Co/Ru/Co and Fe/MgO/Fe Multilayered Structures. AIP Conference Proceedings, 2007, , .	0.3	0
88	Magnetic and Electrical Properties of Undoped and Holmium Doped ZnO Thin Films Grown by Sol-Gel Method. Advanced Engineering Forum, 0, 8-9, 301-308.	0.3	7